

Appl. No. 10/713,452
Atty. Docket No. 9101
Amdt. dated March 16, 2005
Reply to Office Action of 11/17/2004
Customer No. 27752

AMENDMENTS TO THE CLAIMS

Listing of Claims:

1. (Currently amended) An automatic dishwashing detergent composition for use in a wash or rinse liquor comprising:

- a) from about 0.01% and about 70%, by weight of the composition of a glasscare active salt which protects glassware from corrosion;
- b) at least one detergent component;
- c) optionally at least one adjunct material; and
- d) balance water;

wherein said composition is in the form of a liquid, liquid gel, gel, paste, cream, or combinations thereof; and wherein said glasscare active salt is encapsulated via at least one encapsulating agent selected from the group consisting of synthetic amine-containing polymers, chitosan, PVA-boric acid films and Schiff bases derived from aromatic amines and aldehydes which provides at least one encapsulating coating to said glasscare active salt said coating being substantially free of low critical solution temperature polymers.

2. (Original) A composition according to Claim 1, wherein said glasscare active salt is in the form of a core particle, aggregate of core particles, prill, agglomerate, or combinations thereof, and is nonfriable, water-soluble or water dispersible or which dissolve, disperse, or melt in a temperature range of from about 40° C to about 50° C.

3. (Original) A composition according to Claim 1, wherein the release of said glasscare active salt to the wash and/or rinse liquor is triggered by the dissolution or disruption of said at least one encapsulating coating.

4. (Original) A composition according to Claim 1, wherein said liquid composition delivers from about 0.1 mM to about 10 mM of said glasscare active salt or complex to said wash and/or rinse liquor.

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5. (Original) A composition according to Claim 1, wherein said glasscare active salt comprises at least one of the following: aluminum, zinc, magnesium, calcium, lanthanum, tin, gallium, strontium, titanium, or mixtures thereof.

6. (Original) A composition according to Claim 5, wherein said glasscare active salt comprises at least one of the following: water-soluble aluminum salt, water-insoluble aluminum salt, slightly water-soluble aluminum salt, water-soluble zinc salt, water-insoluble zinc, slightly water-soluble zinc salt, water-soluble magnesium salt, water-insoluble magnesium salt, slightly water-soluble magnesium salt, water-soluble calcium salt, water-insoluble calcium salt, slightly water-soluble calcium salt, or mixtures thereof.

7. (Original) A composition according to Claim 6, wherein said aluminum salt is aluminum sulfate.

8. (Original) A composition according to Claim 1, wherein said at least one detergent component comprises at least one of the following: an alkalinity source, builder, surfactant, suds suppressor, enzyme, thickener, bleaching system, adjunct materials, or mixtures thereof.

9. (Original) A composition according to Claim 8, wherein said bleaching system comprises at least one of the following: bleaching agents comprising at least one of the following: chlorine bleach, oxygen bleach, or mixtures thereof; organic peroxyacid bleach precursors; transition metal-containing bleach catalysts; bleach activators; or mixtures thereof.

10. (Original) A composition according to Claim 1, wherein said dissolution or disruption of said at least one encapsulating coating occurs via a release mechanism triggered by at least one of the following release mechanism: time, temperature, hardness, interfacial tension, pH-sensitive, mechanical action, ionic strength, dilution, or combinations thereof.

11 - 13. (Cancelled)

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14. (Currently amended) An automatic dishwashing detergent composition for use in a wash or rinse liquor comprising:

- e) from about 0.01% and about 70%, by weight of the composition of a glasscare active salt which protects glassware from corrosion;
- f) at least one detergent component;
- g) optionally at least one adjunct material; and
- h) balance water;

wherein said composition is in the form of a granular solid, powder, or combinations thereof; wherein said glasscare active salt is encapsulated via at least one encapsulating agent which provides at least one encapsulating coating to said glasscare active salt; and wherein said encapsulating coating is substantially free of low critical solution temperature polymers.

15. (Original) A composition according to Claim 14, wherein said glasscare active salt is in the form of a core particle, aggregate of core particles, prill, agglomerate, or combinations, and is nonfriable, water-soluble or water dispersible or which dissolve, disperse, or melt in a temperature range of from about 40° C to about 50° C.

16. (Original) A composition according to Claim 14, wherein the release of said glasscare active salt to the wash and/or rinse liquor is triggered by the dissolution or disruption of said at least one encapsulating coating.

17. (Original) A composition according to Claim 14, wherein said liquid composition delivers from about 0.1 mM to about 10 mM of said glasscare active salt or complex to said wash and/or rinse liquor.

18. (Original) A composition according to Claim 14, wherein said glasscare active salt comprises at least one of the following: aluminum, zinc, magnesium, calcium, lanthanum, tin, gallium, strontium, titanium, or mixtures thereof.

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19. (Original) A composition according to Claim 18, wherein said glasscare active salt comprises at least one of the following: water-soluble aluminum salt, water-insoluble aluminum salt, slightly water-soluble aluminum salt, water-soluble zinc salt, water-insoluble zinc, slightly water-soluble zinc salt, water-soluble magnesium salt, water-insoluble magnesium salt, slightly water-soluble magnesium salt, water-soluble calcium salt, water-insoluble calcium salt, slightly water-soluble calcium salt, or mixtures thereof.

20. (Original) A composition according to Claim 19, wherein said aluminum salt is aluminum sulfate.

21. (Original) A composition according to Claim 14, wherein said at least one detergent component comprises at least one of the following: an alkalinity source, builder, surfactant, suds suppressor, enzyme, thickener, bleaching system, adjunct materials, or mixtures thereof.

22. (Original) A composition according to Claim 21, wherein said bleaching system comprises bleaching agents comprising at least one of the following: chlorine bleach, oxygen bleach, or mixtures thereof, organic peroxyacid bleach precursors, transition metal-containing bleach catalysts, bleach activators, or mixtures thereof.

23. (Original) A composition according to Claim 14, wherein said dissolution or disruption of said at least one encapsulating coating occurs via a release mechanism triggered by at least one of the following release mechanism: time, temperature, hardness, interfacial tension, pH-sensitive, mechanical action, ionic strength, dilution, or combinations thereof.

24. (Currently amended) A composition according to Claim 14, wherein said at least one encapsulating agent comprises at least one of the following: fatty acids, polyvinyl alcohol, polyethylene glycols, builders, ~~water-soluble cellulose~~, non-low critical solution polymer, polymer latex; polycarboxylate materials, ethylene vinyl acetate, polyvinyl alcohol, polyethylene waxes of melting point 50°-65° C, natural waxes, paraffin or microcrystalline waxes having melting points of 40°-94° C, liquid paraffin waxes, a

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alcohol waxes, synthetic resin, silicone oil, petroleum jelly, inorganic coatings, or mixtures thereof.

25. (Currently amended) A composition according to Claim 24, wherein said at least one encapsulating agent comprises at least one of the following: non-low critical solution polymer, polymer latex, ~~polycarboxylate material~~, ethylene vinyl acetate, polyvinyl alcohol, or mixtures thereof.

26. (Cancelled)

27. (Original) A composition according to Claim 1, wherein said composition is in the form of a unit dose which allows for the controlled release of said encapsulated glasscare active salt during the wash and/or rinse cycle of said automatic dishwashing appliance; wherein said unit dose is provided as a single or multi-compartment water-soluble pouch.

28. (Original) A composition according to Claim 14, wherein said composition is in the form of a unit dose which allows for the controlled release of said glasscare active salt during the wash and/or rinse cycle of said automatic dishwashing appliance; wherein said unit dose is provided as a tablet, single or multi-compartment water-soluble pouch, or combinations thereof.

29. (Original) A method of cleaning and protecting glassware comprising the step of washing said glassware in an automatic dishwashing machine with an automatic dishwashing detergent composition according to Claim 1.

30. (Cancelled)

31. (Original) A method of cleaning and protecting glassware comprising the step of washing said glassware in an automatic dishwashing machine with an automatic dishwashing detergent composition according to Claim 14.

32 - 33. (Cancelled)